

Danner, Ward

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Sent: Tuesday, May 27, 2014 1:53 PM
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Subject: RED HILL STATUS REPORT - MAY 27, 2014
Importance: High

Hi Richard/Roxanne:

Attached are the updated information for the weekly progress report from Navy Region Hawaii, and the Fleet Logistic Center Pearl Harbor for the week of May 27, 2014.

1. Preliminary Work Plan (due Friday 14 March 2014)

The Preliminary Work Plan was submitted as required in your letter of February 26, 2014. A contract vehicle was identified to contract these efforts. The performance work statement was provided to you for review/endorsement and the request for funding package submitted to Naval Supply Systems Command (NAVSUP)/Defense Logistics Agency (DLA) Resource sponsor on March 14, 2014.

Contract proposals were received by the Navy on April 11, 2014. Negotiations were conducted on April 17, 2014. The contractor submitted a revised proposal on April 29, 2014 for Phase 1a (Site Characterization).

NEW: Contract was awarded on 23 May 2014 for Phase 1a (Site Characterization) and Phase 1b (Installation of Sentinel Monitoring Wells).

a. Item 1- Models to estimate downward vertical migration of free product.

There is a lack of models for investigating pure petroleum liquid. However, we will continue to evaluate the availability of transport models in basalt. We have requested that the contractor provide multiple scenarios that would cover multiple release points with varying volumes, different rates of release with a range of rock column properties, and a catastrophic release scenario. This is included as Phase 2 in the contract mentioned above.

NO CHANGE - The funding for the vertical migration modeling (Phase 2) is currently being processed.

b. Item 2 - Methods or options for non-invasive scanning of basalt to determine area and volume of contaminant mass prior to any drilling investigation.

The remediation consultant will research existing technology and advise the Navy if geologic conditions at Red Hill are amenable to using any currently available technology.

NO CHANGE

c. Item 3 - Methods and locations for borings to most efficiently characterize the extent of contamination.

This is included in the contract (Phase 1a) mentioned above. The tank inspection may yield some information of the location of the release.

NO CHANGE.

2. Release Response Action Items (initiate immediately, complete as soon as practicable)

a. Action 1 - Provide a schedule for the ventilation of Tank 5 and an estimated date to commence the investigation of release point(s) within Tank 5.

The most current schedule is as follows:

- . Contractor work plan approved by EXWC IOT commence preparation, venting, and equipment installation - COMPLETED
- . Contractor commenced mobilization - COMPLETED
- . Contractor commenced venting preparations IOT stage and install venting equipment - COMPLETED
- . Venting commenced - March 20, 2014
- . Certified gas-free and entered - April 7, 2014
- . Detailed visual inspection - COMMENCED April 24
- . Detailed visual inspection of tank floor and lower dome - COMPLETED
- . Contractor commenced installation of lift equipment - COMMENCED

NO CHANGE.

b. Action 2 - The rate of vertical migration for the released JP-8 free product is unknown. Information from the previously collected basalt cores could be used for initial modeling of vertical migration. This information is necessary to protect drinking water resources from petroleum contamination. Prepare models for petroleum JP-8 releases of 10,000, 20,000 and 30,000 gallons from points at 25% intervals from the bottom to the top of Tank 5. Progress in developing these models should be included in the preliminary work plan.

Previous borings and monitoring wells were installed in the lower access tunnel, which is located below the tank bottoms. In the interest of time, initial models for vertical migration of contaminant mass will assume the geology around the tanks is similar to the geology below the tanks.

NEW: As indicated in Item 1a above, funding for Phase 2 (Vertical Migration Modeling) is being processed.

c. Action 3 - Removal of petroleum free product from the area outside the tank will reduce downward migration of the released JP-8 free product. Characterization of the free product plume and recovery of free product with increased monitoring are required to address this plume.

NEW: As indicated in item 1 above, Phase 1a (Site Characterization) was awarded on 23 May 2014. During this contracted effort, the feasibility of product recovery will be assessed and coordinated with the DOH.

d. Action 4 - Additional studies and procedures are required to address the potential and impact of any future releases from the USTs within the Complex. This will require new financial and personnel resources to complete. Funding for the preliminary work plan and all necessary following work is critical.

The Navy awarded a contract on 3/28/2014 to update the Red Hill Groundwater Protection Plan and identify data requirements to improve groundwater and fate and transport models.

Additional monitoring well locations were submitted to the DOH on 16 May 2014 for review and approval. Navy requested DOH concurrence by 30 May 2014.

NEW: The contract for Phase 1a (Site Characterization) and Phase 1b (Installation of Sentinel Monitoring Wells) was awarded on 23 May 2014. The funds for Phase 2 (Vertical Migration Modeling) is being processed. Phase 3 (Pilot Study) is being programmed for future funding considerations.

Preliminary analytical results for groundwater samples collected from monitoring well TAMC MW-2 indicated concentrations of TPH-diesel are above DOH EALs. No other contaminants of potential concern were detected above DOH EALs. This preliminary test results were relayed by telephone to DOH, the Army, and BWS. Potential sources of TPH-diesel in the nearby area are being researched.

NEW: Funds have been requested to resample monitoring well TAMC MW-2.

Please feel free to contact me if you have any questions.

Vr,

Aaron